AMSAT News Service Weekly Bulletins
Issue: ANS-064
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SB SAT @ AMSAT $ANS-064.01
UOSAT-2 TURNS 10 YEARS OLD

HR AMSAT NEWS SERVICE BULLETIN 064.01 FROM AMSAT HQ
SILVER SPRING, MD MARCH 6, 1994
TO ALL RADIO AMATEURS BT
BID: $ANS-064.01

UOSAT-2 (UO-11) Celebrates 10 Years Of On-Orbit Service

At 17:59 UTC on March 1st, 1984, the second satellite designed and built by the University of Surrey, UoSAT-2 (UO-11) was launched on a Delta rocket from the Western Test Range at Vandenberg Air Force Base, California.

Among its many experiments, UoSAT-2 carried the Digital Communications Experiment, which was one of the first (if not THE first!) non-military use of store-and-forward techniques with Low Earth Orbiting satellites. UoSAT-2 was an early test-bed for many of the technologies that have since been incorporated into a number of other packet radio satellites.

For all those who wonder how long these satellites last, it should be noted that UoSAT-2 is still operational, ten years after launch!

Happy Birthday UoSAT-2 !!!

[The AMSAT News Service (ANS) would like to thank Eric Rosenberg (WD3Q) for the information contained in this bulletin item. Eric can be contacted at his INTERNET address of ericr@vita.org]

/EX
SB SAT @ AMSAT $ANS-064.02
SAMPLE RS-15 KEPS

HR AMSAT NEWS SERVICE BULLETIN 064.02 FROM AMSAT HQ
SILVER SPRING, MD MARCH 6, 1994
TO ALL RADIO AMATEURS BT
BID: $ANS-064.02

KE3HP Presents A "Sample" Keplerian Element Set For RS-15

Based on information about RS-15's orbital paramaeters in last week's ANS bulletins, KE3HP has generated a set of predicted elements for this satellite. KE3HP assumed that the launch would be from Plesetsk at 12:00 UTC on 01-MAY-94. He generated these elements using OrbiTrack, an excellent MacIntosh shareware program by Bill Bard.

Satellite	RS-15 predicted
Catalog Number	99999
Epoch	94 121.57362967 05/01/94 13:46:02 UTC
Drag2	0.00000000 Rev/Day^2
Inclination	67.0000 Deg
RAAN	22.8163 Deg
Eccentricity	0.0001152
Argument of Perigee	360.0000 Deg
Mean Anomaly	0.0000 Deg
Mean Motion	10.73887722 Rev/Day

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Epoch Revolution            0

Semimajor Axis          8678.14 km
Precession              1.3232 Deg West/Day
Period                    134.09 Min
Apogee                   2301.00 KM   1429.77 SM   1242.44 NM
Perigee                  2299.00 KM   1428.53 SM   1241.36 NM
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The only element strongly influenced by the launch date and time will be RAAN. The primary difference is that these predicted elements will show the satellite passing over your QTH at a different time than when the real bird will. If you take these elements and "plug" them into your satellite tracking programs, one of the facinating features that you will discover about this orbit is that even on a low elevation pass (10 degs or less) RS-15 is visable for up to 20 minutes! This will make RS-15 an excellent satellite for Mode A operations. Please stay tuned to the AMSAT News Service (ANS) bulletins for further information about the launch of RS-15.

[The AMSAT News Service (ANS) would like to thank KE3HP for the information contained in this bulletin item.]

/EX
SB SAT @ AMSAT $ANS-064.03
AO-13 OPERATIONS NET SCHEDS

HR AMSAT NEWS SERVICE BULLETIN 064.03 FROM AMSAT HQ
SILVER SPRING, MD MARCH 6, 1994
TO ALL RADIO AMATEURS BT
BID: $ANS-064.03

Current AMSAT Operations Net Schedule For AO-13

AMSAT Operations Nets are planned for the following times. Mode-B Nets are conducted on AO-13 on a downlink frequency of 145.950 MHz. If, at the start of the OPS Net, the frequency of 145.950 MHz is being used for a QSO, OPS Net enthusiasts are asked to move to the alternate frequency of 145.955 MHz.

Date	UTC	Mode	Phs	NCS	Alt NCS
13-Mar-94	0130	B	075	VE2LVC	W9ODI
19-Mar-94	1730	B	073	W5IU	WA5ZIB
26-Mar-94	2130	B	084	WA5ZIB	W5IU

Any stations with information on current events would be most welcome. Also, those interested in discussing technical issues or who have questions about any particular aspect of OSCAR statellite operations, are encouraged to join the OPS Nets. If neither of the Net Control Stations show up, any participant is invited to act as the NCS.

AO-13 ZRO Tests For March 1994

The following schedule of Mode "B" tests were chosen for convenient operating times and favorable squint angles. The tests can be heard on 145.840 MHz. Andy McAlister (WA5ZIB) will conduct all the tests. Mode "JL" tests will no longer occur due to the failure of AO-13's 70CM transmitter.

Day	Date (UTC)	Time	Areas covered
Saturday	Mar. 19, 1994	1930 UTC	NA, SA, Europe, Africa
Saturday	Mar. 26, 1994	2315 UTC	NA, SA

Note that the dates and days are shown in "UTC". Any changes will be

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announced as soon as possible via the AMSAT HF and AO-13 Operations
Nets.

All listener reports with date of test and numbers copied should be sent to
Andy MacAllister (WA5ZIB), AMSAT V.P. User Operations, 14714 Knights Way
Drive, Houston, TX 77083-5640.  A report will be returned verifying the
level of accurate reception.  An S.A.S.E. is appreciated but not required.

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SB SAT @ AMSAT   $ANS-064.04
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 064.04 FROM AMSAT HQ
SILVER SPRING, MD MARCH 6, 1994
TO ALL RADIO AMATEURS BT
BID: $ANS-064.04

Weekly OSCAR Status Reports: 06-MAR-94

AO-13: Current Transponder Operating Schedule:
L QST *** AO-13 TRANSPONDER SCHEDULE ***  1994 Jan 31-Apr 04
Mode-B  : MA   0 to MA  90 |
Mode-BS : MA  90 to MA 120 |
Mode-S  : MA 120 to MA 145 |<- S transponder; B trsp. is OFF
Mode-S  : MA 145 to MA 150 |<- S beacon only
Mode-BS : MA 150 to MA 180 |        Blon/Blat 180/0
Mode-B  : MA 180 to MA 256 |
Omnis   : MA 230 to MA  30 |  Move to attitude 240/0, Apr 04
[G3RUH/DB2OS/VK5AGR]

FO-20: The following is the current schedule for transponder operations:
       ANALOG MODE:
             09-MAR-94 7:05 -TO- 16-MAR-94 7:30 UTC
             23-MAR-94 7:52 -TO- 30-MAR-94 8:15 UTC
      DIGITAL MODE: Unless otherwise noted above.
      [Kazu Sakamoto (JJ1WTK) qga02014@niftyserve.or.jp]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly
OSCAR status reports.  If you have a favorite OSCAR which you work on a
regular basis and would like to contribute to this bulletin, please send
your observations to WD0HHU at his CompuServe address of 70524,2272, on
INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO
area, WD0HHU @ W0LJF.#NECO.CO.USA.NOAM.  Also, if you find that the current
set of orbital elements are not generating the correct AOS/LOS times at
your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL.  The information you
provide will be of value to all OSCAR enthusiasts.

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